



WEST & SENIOR LTD

Revision date 13-05-2025

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and
Regulation (EC) No. 1272/2008 Including amendments

Revision Number 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name EP FASCOL IVORY PIGMENT
Product Code(s) WS19833A
Safety data sheet number 33021
Unique Formula Identifier (UFI) R0FX-F2M2-S009-295V
Pure substance/mixture Mixture

Contains BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} ; Bisphenol F diglycidyl ether, reaction mass of isomers; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.; bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Colouring of epoxide compound & systems. For industrial use only.

1.3. Details of the supplier of the safety data sheet

Importer	Supplier
WSEU LIMITED	West & Senior Ltd
The Penthouse Floor	Milltown Street
5 Lapps Quay	Radcliffe
Cork	Manchester
Ireland	M26 1WE
T12 RW7D	UK
For further information, please contact	

E-mail address info@westsenior.co.uk

Non-Emergency Telephone Number + 44 01617247131

1.4. Emergency telephone number

Emergency Telephone +44 0161 724 7131 Only available 8am to 4pm, Monday to Friday (UK Time Zone)

Emergency Telephone - §45 - (EC)1272/2008
Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin irritation	Category 2 - (H315)
Eye irritation	Category 2 - (H319)

Skin sensitization	Category 1 - (H317)
Reproductive toxicity	Category 1B - (H360F)
Hazardous to the aquatic environment - chronic	Category 2 - (H411)

2.2. Label elements

Contains BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} ; Bisphenol F diglycidyl ether, reaction mass of isomers; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.; bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE

**Signal word**

Danger

Hazard statements

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H360F - May damage fertility.

H411 - Toxic to aquatic life with long lasting effects.

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection and face protection.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P391 - Collect spillage.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Other hazards Toxic to aquatic life.

PBT & vPvB None known.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

3.2 Mixtures

Chemical name	CAS No.	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No.	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)

					1272/2008 [CLP]			
TITANIUM DIOXIDE	13463-67-7	30-60%	01-21194893 79-17-0000	236-675-5	No data available	-	-	-
BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT}	25068-38-6	30-60%	01-21194566 19-26-0000	(603-074-00-8)	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5%	-	-
Bisphenol F diglycidyl ether, reaction mass of isomers	-	10-30%	01-21194543 92-40-XXXX	701-263-0	Aquatic Chronic 2 (H411) Skin Sens. 1 (H317) Skin Irrit. 2 (H315)	-	-	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	1-5%	01-21194852 89-22-0000	(603-103-00-4)	Skin Sens. 1 (H317) Skin Irrit. 2 (H315) Repr. 1B (H360F)	-	-	-
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	1675-54-3	1-5%	01-21194566 19-26-0000	(603-073-00-2) 216-823-5	Aquatic Chronic 2 (H411) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5%	-	-
BARIUM SULPHATE	7727-43-7	<1%	01-21194912 74-35-0001	231-784-4 (056-002-00-7)	No data available	-	-	-
Trimethylolpropane	77-99-6	<1%	01-21194867 99-10-0000	201-074-9	Repr. 2 (H361fd)	-	-	-
CARBON BLACK	1333-86-4	<1%	01-21193848 22-32-0000	215-609-9	No data available	-	-	-
RED OXIDE C.I. PIGMENT RED 101	1309-37-1	<1%	01-21194576 14-35-0011	215-168-2	No data available	-	-	-
SILICA (CRYSTALLINE)	14808-60-7	<0.01%	No data available	238-878-4	No data available	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
TITANIUM DIOXIDE 13463-67-7	10000	No data available	5.0951	No data available	No data available
BISPHENOL	11400	No data available	No data available	No data available	No data available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
A-(EPICHLORHYDRIN) { REACTION PRODUCT} 25068-38-6					
oxirane, mono[(C12-14-alkyloxy) methyl] derivs. 68609-97-2	17100	4000	No data available	No data available	No data available
bis[4-(2,3-EPOXYPROP OXY)PHENYL]PROPANE 1675-54-3	11266.1	20000	No data available	No data available	No data available
BARIUM SULPHATE 7727-43-7	307000	No data available	No data available	No data available	No data available
Trimethylolpropane 77-99-6	14100	10000	No data available	No data available	No data available
CARBON BLACK 1333-86-4	15400	2000	0.0046	No data available	No data available
RED OXIDE C.I. PIGMENT RED 101 1309-37-1	10000	No data available	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Nanoforms

CARBON BLACK (1333-86-4)

Name of (set of) nanoform(s)	Particle characteristics	Value	Method
solid: nanoform, surface-treated	Particle size distribution - d10	7-29 nm	No information available
solid: nanoform, surface-treated	Particle size distribution - d50	10-50 nm	No information available
solid: nanoform, surface-treated	Particle size distribution - d90	15-85 nm	No information available

Additional information

This mixture contains $\geq 1\%$ Titanium Dioxide (CAS 13463-67-7) The Annex VI classification of Titanium Dioxide does not apply to this mixture according to its Note 10.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.
Effects of Exposure	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
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5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
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5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

General hygiene considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Storage class (TRGS 510)

Storage class 6.1C.

7.3. Specific end use(s)

Risk Management Methods (RMM) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
TITANIUM DIOXIDE 13463-67-7	-	TWA-TMW: 5 mg/m ³ ; alveolar dust, respirable fraction STEL-KZGW: 10 mg/m ³ (2 X 60 min); alveolar dust, respirable fraction	TWA: 10 mg/m ³ ;	TWA: 10.0 mg/m ³ ; respirable dust	TWA-GVI: 10 mg/m ³ ; total dust, inhalable particles TWA-GVI: 4 mg/m ³ ; respirable dust
BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} 25068-38-6	-	-	-	TWA: 1.0 mg/m ³ ;	-
BARIUM SULPHATE 7727-43-7	-	-	TWA: 5 mg/m ³ ;	TWA: 10.0 mg/m ³ ;	TWA-GVI: 10 mg/m ³ ; total dust, inhalable particles TWA-GVI: 4 mg/m ³ ; respirable dust
CARBON BLACK 1333-86-4	-	-	TWA: 3 mg/m ³	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
RED OXIDE C.I. PIGMENT RED 101 1309-37-1	-	TWA: 5 mg/m ³ STEL 10 mg/m ³	TWA: 5 mg/m ³	TWA: 5.0 mg/m ³	TWA: 4 mg/m ³ TWA: 5 mg/m ³ TWA: 10 mg/m ³ STEL: 10 mg/m ³
SILICA (CRYSTALLINE) 14808-60-7	TWA: 0.1 mg/m ³ ;	TWA-TMW: 0.05 mg/m ³ ; alveolar dust, respirable	TWA: 0.1 mg/m ³ ; alveolar dust TWA: 0.05 mg/m ³ ;	TWA: 0.1 mg/m ³ ; respirable fraction	TWA-GVI: 0.1 mg/m ³ ; respirable dust;

		fraction			respirable particle
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
TITANIUM DIOXIDE 13463-67-7	-	-	TWA: 6 mg/m ³ ; STEL: 12 mg/m ³ ;	TWA: 5 mg/m ³ ;	-
CARBON BLACK 1333-86-4	-	TWA: 2.0 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
RED OXIDE C.I. PIGMENT RED 101 1309-37-1	-	TWA: 10 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3.5 mg/m ³	TWA: 5 mg/m ³
SILICA (CRYSTALLINE) 14808-60-7	TWA: 0.1 mg/m ³ ; respirable dust fraction	TWA: 0.1 mg/m ³ ; dust	TWA: 0.3 mg/m ³ ; total TWA: 0.1 mg/m ³ ; respirable STEL: 0.6 mg/m ³ ; total STEL: 0.2 mg/m ³ ; respirable	TWA: 0.1 mg/m ³ ; inhalable dust	TWA: 0.05 mg/m ³ ; respirable dust
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
TITANIUM DIOXIDE 13463-67-7	TWA-VME: 10 mg/m ³ ;	TWA-AGW; 1.25 mg/m ³ (exposu re factor 2); respirable fraction TWA-AGW; 10 mg/m ³ (exposure factor 2); inhalable fraction	TWA-MAK: 0.3 mg/m ³ ; II(8);respira ble fraction Peak: 2.4 mg/m ³ ; respirable fraction	TWA: 10 mg/m ³ ; inhalable fraction TWA: 5 mg/m ³ ; respirable fraction	-
bis[4-(2,3-EPOXYPROPO XY)PHENYL]PROPANE 1675-54-3	-	-	skin sensitizer	-	-
BARIUM SULPHATE 7727-43-7	-	TWA-AGW; 1.25 mg/m ³ (exposu re factor 2); respirable fraction TWA-AGW; 10 mg/m ³ (exposure factor 2); inhalable fraction	TWA-MAK: 0.3 mg/m ³ ; II(8);respira ble fraction TWA-MAK: 4 mg/m ³ ; ;inhalable fraction Peak: 2.4 mg/m ³ ; respirable fraction	-	-
CARBON BLACK 1333-86-4	TWA: 3.5 mg/m ³	-	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³
RED OXIDE C.I. PIGMENT RED 101 1309-37-1	TWA: 5 mg/m ³ TWA: 10 mg/m ³	-	-	TWA: 10 mg/m ³ STEL: 10 mg/m ³	TWA: 4 mg/m ³
SILICA (CRYSTALLINE) 14808-60-7	TWA-VME: 0.1 mg/m ³ ; alveolar fraction	-	-	TWA: 0.1 mg/m ³ ; respirable dust fraction	TWA-AK: 0.1 mg/m ³ ; respirable fraction
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m ³ ; total inhalable dust TWA: 4 mg/m ³ ; respirable dust STEL: 30 mg/m ³ (calculated); respirable dust STEL: 12 mg/m ³ (calculated);	-	TWA: 10 mg/m ³ ;	TWA: 10 mg/m ³ ;	TWA-IPRD: 5 mg/m ³ ;
BARIUM SULPHATE 7727-43-7	TWA: 5 mg/m ³ ; respirable dust STEL: 15 mg/m ³ (calculated);	-	TWA: 5 mg/m ³ ; inhalable fraction	-	-

	respirable dust				
Trimethylolpropane 77-99-6	-	-	-	-	Ceiling: 5 ppm
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³ STEL: 15 mg/m ³	-	TWA: 3 mg/m ³	-	-
RED OXIDE C.I. PIGMENT RED 101 1309-37-1	TWA: 5 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 10 mg/m ³ STEL: 12 mg/m ³ STEL: 30 mg/m ³	-	TWA: 5 mg/m ³	TWA: 4 mg/m ³	TWA: 3.5 mg/m ³
SILICA (CRYSTALLINE) 14808-60-7	TWA: 0.1 mg/m ³ ; respirable dust STEL: 0.3 mg/m ³ ;	TWA: 0.1 mg/m ³ ; respirable fraction	TWA: 0.025 mg/m ³ ; respirable fraction	-	TWA-IPRD: 0.1 ppm; respirable fraction
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
TITANIUM DIOXIDE 13463-67-7	-	-	-	TWA: 5 mg/m ³ ; STEL: 10 mg/m ³ (value calculated);	TWA-NDS: 10 mg/m ³ ; inhalable fraction STEL-NDSCh: 30 mg/m ³ ;
BARIUM SULPHATE 7727-43-7	-	-	-	TWA: 0.5 mg/m ³ ; STEL: 1.5 mg/m ³ (except Barium sulfate;value calculated);	-
CARBON BLACK 1333-86-4	-	-	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 4 mg/m ³
RED OXIDE C.I. PIGMENT RED 101 1309-37-1	-	-	-	TWA: 3 mg/m ³ STEL: 6 mg/m ³	TWA: 2.5 mg/m ³ TWA: 5 mg/m ³ STEL: 10 mg/m ³ STEL: 5 mg/m ³
SILICA (CRYSTALLINE) 14808-60-7	-	-	TWA: 0.075 mg/m ³ ; respirable fraction	TWA: 0.05 mg/m ³ ; respirable dust TWA: 0.3 mg/m ³ ; total dust STEL: 0.9 mg/m ³ (value calculated;dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula. At the same time, the values for Nuisance dust must be observed); total dust STEL: 0.15 mg/m ³ (value calculated;dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula. At the same time,	TWA-NDS: 0.1 mg/m ³ ; respirable fraction

				the values for Nuisance dust must be observed); respirable dust	
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
TITANIUM DIOXIDE 13463-67-7	TWA (VLE-MP): 10 mg/m ³ ; mg/m ³ ;	TWA: 10 mg/m ³ ; STEL: 15 mg/m ³ ;	TWA: 5 mg/m ³ ;	-	TWA-(VLA-ED): 10 mg/m ³ ;
BARIUM SULPHATE 7727-43-7	TWA (VLE-MP): 5 mg/m ³ ; inhalable fraction	-	TWA: 4 mg/m ³ ; inhalable fraction TWA: 1.5 mg/m ³ ; respirable fraction	-	TWA-(VLA-ED): 10 mg/m ³ ;
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³	-	TWA: 2 mg/m ³ TWA: 10 mg/m ³	-	TWA: 3.5 mg/m ³
RED OXIDE C.I. PIGMENT RED 101 1309-37-1	TWA: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 1.5 mg/m ³	-	TWA: 5 mg/m ³
SILICA (CRYSTALLINE) 14808-60-7	TWA (VLE-MP): 0.025 mg/m ³ ; respirable fraction	TWA: 0.1 mg/m ³ ; dust, respirable fraction	TWA: 0.1 mg/m ³ ; STEL: 0.5 mg/m ³ ;	TWA: 0.05 mg/m ³ ; respirable fraction	TWA-(VLA-ED): 0.05 mg/m ³ ; respirable fraction
Chemical name	Sweden		Switzerland		United Kingdom
TITANIUM DIOXIDE 13463-67-7	TLV-NGV: 5 mg/m ³ ; total dust		TWA-MAK: 3 mg/m ³ ; respirable dust TWA-MAK: 10 mg/m ³ ; inhalable dust		TWA: 10 mg/m ³ ; total inhalable TWA: 4 mg/m ³ ; respirable STEL: 30 mg/m ³ ; total inhalable STEL: 12 mg/m ³ ; respirable
BARIUM SULPHATE 7727-43-7	-		TWA-MAK: 3 mg/m ³ ; respirable dust TWA-MAK: 10 mg/m ³ ; inhalable dust		TWA: 10 mg/m ³ ; inhalable dust TWA: 4 mg/m ³ ; respirable dust STEL: 30 mg/m ³ ; inhalable dust STEL: 12 mg/m ³ ; respirable dust
Trimethylolpropane 77-99-6	NGV: 5 mg/m ³		-		-
CARBON BLACK 1333-86-4	NGV: 3 mg/m ³		-		TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
RED OXIDE C.I. PIGMENT RED 101 1309-37-1	NGV: 3.5 mg/m ³		TWA: 3 mg/m ³		TWA: 5 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 10 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
SILICA (CRYSTALLINE) 14808-60-7	TLV-NGV: 0.1 mg/m ³ ; respirable fraction		TWA-MAK: 0.15 mg/m ³ ; respirable dust		TWA: 0.1 mg/m ³ ; respirable fraction STEL: 0.3 mg/m ³ ; respirable

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
SILICA (CRYSTALLINE) 14808-60-7	-		-	-	-

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
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Chemical name	Oral	Dermal	Inhalation
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	-	1 mg/kg bw/day [4] [6]	3.6 mg/m ³ [4] [6]
bis[4-(2,3-EPOXYPROPOXY)PHENYL] PROPANE 1675-54-3	-	0.75 mg/kg bw/day [4] [6]	4.93 mg/m ³ [4] [6]
C.I. PIGMENT YELLOW 42 51274-00-1	-	-	10 mg/m ³ [5] [6]
BARIUM SULPHATE 7727-43-7	-	-	10 mg/m ³ [4] [6] 10 mg/m ³ [5] [6]
Trimethylolpropane 77-99-6	-	0.94 mg/kg bw/day [4] [6]	3.3 mg/m ³ [4] [6]
CARBON BLACK 1333-86-4	-	-	1 mg/m ³ [4] [6] 0.5 mg/m ³ [5] [6]

Notes

- [4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	0.5 mg/kg bw/day [4] [6]	-	0.87 mg/m ³ [4] [6]
bis[4-(2,3-EPOXYPROPOXY)PHENYL] PROPANE 1675-54-3	0.5 mg/kg bw/day [4] [6]	-	0.87 mg/m ³ [4] [6]
BARIUM SULPHATE 7727-43-7	13000 mg/kg bw/day [4] [6]	-	10 mg/m ³ [4] [6]
Trimethylolpropane 77-99-6	0.34 mg/kg bw/day [4] [6]	-	0.58 mg/m ³ [4] [6]
CARBON BLACK 1333-86-4	-	-	0.06 mg/m ³ [4] [6]

Notes

- [4] Systemic health effects.
 [6] Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
TITANIUM DIOXIDE 13463-67-7	0.127 mg/l	0.61 mg/l	1 mg/l	0.61 mg/l	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	0.1058 mg/L	0.072 mg/L	0.01058 mg/L	-	-
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE 1675-54-3	0.006 mg/L	0.018 mg/L	0.0006 mg/L	0.0018 mg/L	-
BARIUM SULPHATE 7727-43-7	115 µg/L	-	-	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
TITANIUM DIOXIDE 13463-67-7	1000 mg/kg sediment dw	100 mg/kg sediment dw	100 mg/L	100 mg/kg soil dw	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	307.16 mg/kg sediment dw	30.72 mg/kg sediment dw	10 mg/L	1.234 mg/kg soil dw	-
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE 1675-54-3	0.341 mg/kg sediment dw	0.0341 mg/kg sediment dw	10 mg/L	0.0647 mg/kg soil dw	11 mg/kg food
BARIUM SULPHATE 7727-43-7	600.4 mg/kg sediment dw	-	62.2 mg/L	207.7 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear chemically resistant gloves (tested in accordance to EN 374-1 Type C or greater to be assessed by local risk assessment and physical activity) in combination with employee training. Glove material : Neoprene , Nitriles. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Wear suitable gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Use appropriate respiratory protection.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Coloured paste, Liquid, or
Physical state Liquid
Color White/off-white
Odor Slight
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Boiling point or initial boiling point	No data available	None known

and boiling range		
Flammability	No data available	None known
Lower and upper explosion limit/flammability limit		None known
Lower explosion limit	No data available	
Upper explosion limit	No data available	
Flash point	150 °C	None known
Autoignition temperature	1929 - 400 °C	(ASTM D 1929) 400°C
Decomposition temperature		None known
SADT (°C)	No data available	None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Solubility	No data available	None known
Water solubility	No data available	None known
Partition coefficient n-octanol/water (log value)	No data available	None known
Vapor pressure	No data available	None known
Density and/or relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No information available

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Acute toxicity Based on available data, the classification criteria are not met.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral)	19,126.10 mg/kg
ATEmix (dermal)	99,999.00 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapor)	99,999.00 mg/l
ATEmix (inhalation-dust/mist)	99,999.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
TITANIUM DIOXIDE	> 2000 mg/kg (Rat)	-	> 5.09 mg/L (Rat) 4 h
BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT}	= 11400 mg/kg (Rat)	-	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	= 17100 mg/kg (Rat)	> 4000 mg/kg (Rabbit)	-
bis[4-(2,3-EPOXYPROPOXY)PHENYL] PROPANE	= 11300 µL/kg (Rat)	= 20000 mg/kg (Rabbit)	-
BARIUM SULPHATE	= 307000 mg/kg (Rat)	-	-
Trimethylolpropane	= 14100 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 0.85 mg/L (Rat) 4 h
CARBON BLACK	> 15400 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 4.6 mg/m ³ (Rat) 4 h

RED OXIDE C.I. PIGMENT RED 101	> 10000 mg/kg (Rat)	-	-
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Causes skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Carbon black is not suitable to be tested directly in bacterial (Ames test) and other in vitro systems because of its insolubility. However, when organic solvent extracts of carbon black have been tested, results showed no mutagenic effects. Organic solvent extracts of carbon black can contain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the bioavailability of these PAHs showed that they are very tightly bound to carbon black and are not bioavailable (Borm, 2005). In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black (Driscoll, 1997). This observation is considered to be rat-specific and a consequence of "lung overload," which leads to chronic inflammation and release of reactive oxygen species. This is considered to be a secondary genotoxic effect and, thus, carbon black itself would not be considered to be mutagenic.
Carcinogenicity	In 2006 IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in experimental animal studies for the carcinogenicity of carbon black. IARC's overall evaluation is that carbon black is "possibly carcinogenic to humans (Group 2B)". This conclusion was based on IARC's guidelines, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010). Solvent extracts of carbon black were used in one study of rats in which skin tumors were found after dermal application and several studies of mice in which sarcomas were found following subcutaneous injection. IARC concluded that there was "sufficient evidence" that carbon black extracts can cause cancer in animals (Group 2B).
Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties	Based on available data, the classification criteria are not met.
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11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trimethylolpropane	-	-	-	EC50: =13000mg/L (48h, Daphnia species) EC50: 10330 - 16360mg/L (48h, Daphnia magna)
RED OXIDE C.I. PIGMENT RED 101	-	LC50: =100000mg/L (96h, Danio rerio)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	2.33
Trimethylolpropane	-0.47

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
TITANIUM DIOXIDE	Not PBT/vPvB
BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT}	Not PBT/vPvB
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Not PBT/vPvB
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	Not PBT/vPvB
BARIUM SULPHATE	Not PBT/vPvB
Trimethylolpropane	Not PBT/vPvB
CARBON BLACK	Not PBT/vPvB
RED OXIDE C.I. PIGMENT RED 101	Not PBT/vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

PMT or vPvM properties

Based on available data, the classification criteria are not met.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} , Bisphenol F diglycidyl ether, reaction mass of isomers)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	A97, A158, A197, A215
ERG Code	9L
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} , Bisphenol F diglycidyl ether, reaction mass of isomers), 9, III

IMDG

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} , Bisphenol F diglycidyl ether, reaction mass of isomers)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
Marine pollutant indicator	P
Marine pollutant name	BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} , Bisphenol F diglycidyl ether, reaction mass of isomers
14.6 Special precautions for user	
Special Provisions	274, 335, 375, 969
EmS-No.	F-A, S-F
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} , Bisphenol F diglycidyl ether, reaction mass of isomers), 9, III, Marine pollutant
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} , Bisphenol F diglycidyl ether, reaction mass of isomers)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} , Bisphenol F diglycidyl ether, reaction mass of isomers), 9, III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	274, 335, 375, 601, 650

Classification code M6

ADR

14.1 UN number or ID number UN3082
14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} , Bisphenol F diglycidyl ether, reaction mass of isomers)
14.3 Transport hazard class(es) 9
14.4 Packing group III
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} , Bisphenol F diglycidyl ether, reaction mass of isomers), 9, III, (-)
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions 274, 335, 375, 601, 650
Classification code M6
Tunnel restriction code (-)

ADN

14.1 UN number or ID number UN3082
14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} , Bisphenol F diglycidyl ether, reaction mass of isomers)
14.3 Transport hazard class(es) 9
14.4 Packing group III
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} , Bisphenol F diglycidyl ether, reaction mass of isomers), 9, III
14.5 Environmental hazard Yes
14.6 Special precautions for user
Special Provisions 274, 335, 375, 601, 650
Classification code M6
Equipment Requirements PP

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
CARBON BLACK - 1333-86-4	RG 16, RG 16bis
RED OXIDE C.I. PIGMENT RED 101 - 1309-37-1	RG 44, RG 44bis, RG 94
SILICA (CRYSTALLINE) - 14808-60-7	RG 25

Germany

Chemical Prohibition Ordinance (ChemVerbotsV) This product is subject to requirements and restrictions regarding handling and delivery

Chemical name	ANNEX I
SILICA (CRYSTALLINE) 14808-60-7	1.2

TA Luft (German Air Pollution Control Regulation)

Chemical name	Number	Class
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Chemical name	Number	Class
SILICA (CRYSTALLINE)	5.2.7.1.1	-

TRGS 905

Not applicable

Netherlands**Carcinogenic, mutagenic and reproductive toxic effects**

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
SILICA (CRYSTALLINE) - 14808-60-7	Present	-	-

Switzerland**Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018** Not applicable**Storage of Hazardous Material** SC 10/12**WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20** Not applicable**Major Accidents Ordinance SR 814.012** Not applicable**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
TITANIUM DIOXIDE - 13463-67-7	75	-
BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} - 25068-38-6	75	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. - 68609-97-2	Use restricted. See entry 75.	-
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE - 1675-54-3	Use restricted. See entry 75.	-
CARBON BLACK - 1333-86-4	Use restricted. See entry 75.	-
RED OXIDE C.I. PIGMENT RED 101 - 1309-37-1	Use restricted. See entry 75.	-

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable.

EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)
CARBON BLACK - 1333-86-4	Plant protection agent
SILICA (CRYSTALLINE) - 14808-60-7	Plant protection agent

Explosives Precursors Marketing and Use (2019/1148)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status
TCSI	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of any hazard and/or precautionary statements referred to under Sections 2-15**

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H360F - May damage fertility
H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation
+	Sensitizers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method

Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 National Institute of Technology and Evaluation (NITE)
 Australian Industrial Chemicals Introduction Scheme (AICIS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

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Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**Disclaimer**

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End of Safety Data Sheet